#### Claims:

1. (currently amended) A compound of the formula I:

$$\mathbb{R}^4$$
 $\mathbb{R}^5$ 
 $\mathbb{R}^1$ 
 $\mathbb{R}^2$ 
 $\mathbb{R}^3$ 

wherein R<sup>1</sup> is C<sub>1</sub>-C<sub>4</sub> branched or straight chain alkyl;

 $R^2$  is H;

R<sup>3</sup> is H; C<sub>1</sub>-C<sub>6</sub> branched or straight chain alkyl; C<sub>2</sub>-C<sub>4</sub> alkenyl; **or** C<sub>2</sub>-C<sub>4</sub> alkynyl;

 $R^4$  is H;  $C_1$ - $C_6$  branched or straight chain alkyl; or  $C_2$ - $C_4$  alkenyl;

R<sup>5</sup> is SO<sub>2</sub>NR<sup>10</sup>R<sup>11</sup>;

R<sup>8</sup> is H; or C<sub>1</sub>-C<sub>6</sub> branched or straight chain alkyl;

R<sup>10</sup> and R<sup>11</sup> are each independently H; or C<sub>1</sub>-C<sub>12</sub> branched or straight chain alkyl; C<sub>2</sub>-C<sub>6</sub> alkenyl; C<sub>2</sub>-C<sub>6</sub> alkynyl or C<sub>3</sub>-C<sub>6</sub> cycloalkyl; or R<sup>10</sup> and R<sup>11</sup> together with their attached nitrogen atom form a pyrrolinyl, pyrrolinone group, piperidyl, morpholinyl, or 4-N(R<sup>8</sup>)-piperazinyl; the said groups which are optionally substituted with OH, CN, CO<sub>2</sub>R<sup>8</sup>, C<sub>1</sub>-C<sub>4</sub> branched or straight chain alkyl, NR<sup>14</sup>R<sup>15</sup> phenyl, groups optionally substituted with OH, or C<sub>1</sub>-C<sub>3</sub> alkoxyl or linked together with another substituted phenyl by a carbonyl group;

R<sup>14</sup>-and R<sup>15</sup>-are each independently H; C<sub>1</sub>-C<sub>4</sub>-branched or straight chain alkyl;

or their pharmaceutically acceptable salts.

### 2-3. (Cancelled)

- 4. (Currently amended) The compound according to claim 1, wherein the compound is selected from a the group consisting of:
- 2-[2-ethoxyl-5-(4-ethylpiperazinyl-1-sulfonyl)phenyl]-5-methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;
- 2-[2-methoxyl-5-(4-ethylpiperazinyl-1-sulfonyl)phenyl]-5-methyl-7-n-propyl-3,7-dihydropyrrol o[2,3-d]pyrimidin-4-one, and the hydrochloride thereof;
- 2-[2-n-propoxy-5-(4-ethylpiperazinyl-1-sulfonyl)phenyl]-5-methyl-7-n-propyl-3,7-dihydropyrrol o[2,3-d]pyrimidin-4-one, and the hydrochloride thereof;
- 2-[2-allyloxy-5-(4-ethylpiperazinyl-1-sulfonyl)phenyl]-5-methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, and the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;
- 2-[2-n-propoxy-5-(4-ethylpiperazinyl-1-sulfonyl)phenyl]-5-ethyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;
- 2-[2-ethoxyl-5-(4-methylpiperazinyl-1-sulfonyl)phenyl]-5-methyl-7-n-propyl-3,7-dihydropyrrol o[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;
- 2-[2-ethoxyl-5-(4-methylpiperazinyl-1-sulfonyl)phenyl]-5-ethyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;
- 2-[2-ethoxyl-5-(4-ethoxycarbonylpiperazinyl-1-sulfonyl)phenyl]-5-

methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;

2-{2-ethoxyl-5-[4-(2-hydroxyethyl)piperazinyl-1-sulfonyl] phenyl}-5-methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;

2-[2-ethoxyl-5-(pyrrolidinyl-1-sulfonyl)phenyl]-5-methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;

2-{2-ethoxyl-5-[3-(2-oxy-pyrrolidin-1-yl)-n-propylamino-N-sulfonyl]phenyl}-5-methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d] pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;

2-{2-ethoxyl-5-[2-(pyrrolidin-1-yl)-ethylamino-N-sulfonyl]phenyl}-5-methyl-7-n-propyl-3,7-dih ydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;

2-[2-ethoxyl-5-(morpholino-4-sulfonyl)phenyl]-5-methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]p yrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;

2-{2-ethoxyl-5-[3-(morpholin-4-yl)-n-propylamino-N-sulfonyl] phenyl}-5-methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4- one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;

2-{2-ethoxyl-5-[2-(morpholin-4-yl)-ethylamino-N-sulfonyl]phenyl}-5-methyl-7-n-propyl-3,7-di hydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;

2-[2-ethoxyl-5-(2,6-dimethylmorpholino-N-sulfonyl)phenyl]-5methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;

2-[2-ethoxyl-5-(1-benzylpiperidyl-4-aminosulfonyl)phenyl]-5methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;

2-{2-ethoxyl-5-[2-(piperidin-1-yl)ethylamino-1-sulfonyl]phenyl}-5methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;

2-[2-ethoxyl-5-(4-benzylpiperazinyl-1-sulfonyl)phenyl]-5-methyl-7-n-propyl-3,7-dihydropyrrolo [2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;

2-[2-ethoxyl-5-(4-phenylpiperazinyl-1-sulfonyl)phenyl]-5-methyl-7-n-propyl-3,7-dihydropyrrolo [2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;

2-[2-ethoxyl-5-(piperazinyl-1-sulfonyl)phenyl]-5-methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;

2-[2-ethoxyl-5-(4-benzo[1,3]dioxol—5-yl-methylpiperazinyl-1-sulfonyl)phenyl]-5-methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d] pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;

2-{2-ethoxyl-5-[4-(3-phenyl-n-propan-1-yl)piperidyl-1-sulfonyl] phenyl}-5-methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;

2-[2-ethoxyl-5-(n-propylamino-1-sulfonyl)phenyl]-5-methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one,the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;

- 2-{2-ethoxyl-5-[N,N-di(2-hydroxyethyl)aminosulfonyl]phenyl}-5methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;
- 2-{2-ethoxyl-5-[N-(2-hydroxyethyl)-N-methylaminosulfonyl]phenyl}-5-methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;
- 2-{2-ethoxyl-5-[N-(2-hydroxyethyl)-N-ethylaminosulfonyl]phenyl}-5-methyl-7-n-propyl-3,7-di hydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;
- 2-{2-ethoxyl-5-[N-(2-hydroxyethyl)-N-n-butylaminosulfonyl]phenyl}-5-methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;
- 2-[2-ethoxyl-5-(p-ethoxylcarboxylphenylamino-N-sulfonyl)phenyl]-5-methyl-7-n-propyl-3,7-dih ydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;
- 2-[2-ethoxyl-5-(o-benzoylphenylamino-N-sulfonyl)phenyl]-5-methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;
- 2-[2-ethoxyl-5-(N2-acethydrazido-N1-sulfonyl)phenyl]-5-methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride and dihydrochloride and other possible hydrochloride thereof;
- 2-[2-ethoxyl-5-(2-dimethylaminoethylamino-N-sulfonyl)phenyl]-5methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;
- 2-[2-ethoxyl-5-(4-ethylpiperazinyl-1-sulfonyl)phenyl]-5-ethyl-7-n-

propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;

2-[2-ethoxyl-5-(4-ethylpiperazinyl-1-sulfonyl)phenyl]-5morpholinomethyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4one, the
monohydrochloride, dihydrochloride and other possible hydrochloride thereof;

2-[2-ethoxyl-5-(4-ethylpiperazinyl-1-sulfonyl)phenyl]-5-(pyrimidinyl-2)-methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof; and

2-[2-ethoxyl-5-(4-ethylpiperazinyl-1-sulfonyl)phenyl]-5-methyl-7-allyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof.

### 5. (canceled)

6. (previously amended) A pharmaceutical composition containing the compound according to claims 1 or 4 as an active ingredient and a pharmaceutically acceptable excipient.

7. (previously amended) A veterinary drug composition containing the compound according to claims 1 or 4 as an active ingredient and a veterinarily acceptable excipient.

### 8-9. (canceled)

10. (currently amended) Intermediates for the manufacture of compound of formula I according to

### claim 1 having the Formulae IB, IC and IG:

$$\mathbb{R}^4$$
 $\mathbb{R}^4$ 
 $\mathbb{R}^5$ 
 $\mathbb{R}^7$ 
 $\mathbb{R}^7$ 

## wherein R<sup>1</sup> is C<sub>1</sub>-C<sub>4</sub> branched or straight chain alkyl;

# $R^2$ is H;

R<sup>3</sup> is H; C<sub>1</sub>-C<sub>6</sub> branched or straight chain alkyl; C<sub>2</sub>-C<sub>4</sub> alkenyl; or C<sub>2</sub>-C<sub>4</sub> alkynyl;

R<sup>4</sup> is H; C<sub>1</sub>-C<sub>6</sub> branched or straight chain alkyl; or C<sub>2</sub>-C<sub>4</sub> alkenyl;

 $R^5$  is  $SO_2NR^{10}R^{11}$ ;

## R<sup>8</sup> is H; or C<sub>1</sub>-C<sub>6</sub> branched or straight chain alkyl;

 $R^{10}$  and  $R^{11}$  are each independently H;  $C_1$ - $C_{12}$  branched or straight chain alkyl;  $C_1$ - $C_3$  halogenated branched or straight chain alkyl;  $C_2$ - $C_6$  alkenyl;  $C_2$ - $C_6$  alkynyl or  $C_3$ - $C_6$  cycloalkyl; or  $R^{10}$  and  $R^{11}$  together with their attached nitrogen atom form a pyrrolinyl, pyrrolinone group, piperidyl, morpholinyl, or 4-N( $R^8$ )-piperazinyl; the said groups are optionally substituted with OH, CN,  $CO_2R^8$ ,  $C_1$ - $C_4$  branched or straight chain alkyl, or

## C<sub>1</sub>-C<sub>3</sub> alkoxyl.